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## Amendments To The Claims:

1-38 (cancelled).

39. (new) A method for controlling the castability of liquid steel, the method comprising:

establishing a first range of relative concentration limits for at least two elements of a melt such that a subsequent casting of the melt will exhibit acceptable mechanical properties;

establishing a second range of relative concentration limits for the at least two elements of the most of the first range of relative concentration limits such that the melt is castable; and

controlling chemistry of the melt to within the second range of relative concentration limits.

- 40. (new) The method of claim 39, further comprising establishing the second range of relative concentration limits between elements of the group consisting of C, Si, Mn, S, Al, N, Zn and O<sub>2</sub>.
- 41. (new) The method of claim 39, further comprising establishing the second range of relative concentration limits between at least one of the group consisting of N/O<sub>2</sub>, Zn/O<sub>2</sub>, S/Zn, C/Zn, Mn/S, Mn/N, Si/C, Al/C, Si/O<sub>2</sub>, S/O<sub>2</sub>, Al/O<sub>2</sub>, S/C, and N/C.
- 42. (new) The method of claim 39, further comprising establishing the second range of relative concentration limits between at least one of the group consisting of Si/O<sub>2</sub>, S/O<sub>2</sub>, Si/O<sub>2</sub>, Al/O<sub>2</sub>, S/C, and N/C.

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## 43. (new) The method of claim 39, further comprising:

displaying the first range on a graph illustrating concentrations of a first element along a first axis and concentrations of a second element along a second axis;

displaying the second range on the graph as a sub-area of the first range; and displaying a measured relative concentration of the first and second elements in the melt as a point on the graph.

44. (new) The method of claim 39 used in a thin-strip continuous easting machine according to a twin-roller coating process.